



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Jin-Woo KIM
SERIAL NO.: 09/868,474
FILED : June 15, 2001
FOR : HUMAN CERVICAL CANCER PROTOONCOGENE AND
PROTEIN ENCODED THEREIN
EXAMINER: Sean McGarry Art Unit: 1635

Commissioner for Patents
Washington, D.C. 20231

AMENDMENT

Sir:

In response to the Office Action dated Jan. 29, 2003 it is respectfully requested that the above-captioned application be amended as follows:

In the Claims:

Please amend claims 1, 2, 4, 7, 8 and 10 as follows, written in a "clean" format:

1. A human cervical cancer 1 protooncogene having the base sequence of SEQ ID NO:1.
2. A human cervical cancer 1 protooncogene having a base sequence corresponding to base Nos. 9 to 1088 of SEQ ID NO:1.
- 3/4. A vector comprising the protooncogene of claim 1.
- 6/7. A process for preparing the protein having the amino acid sequence of SEQ ID NO: 2 by culturing the microorganism of claim 3/4.

8. A kit for diagnosis of cancer which comprises the protooncogene of claim 1.
10. An anti-sense gene having a base sequence which is complementary to the sequence of the mRNA transcribed from the protooncogene of claim 1 and being capable of binding the mRNA to inhibit the expression of said protooncogene.

Please cancel claim 12 without prejudice thereto.

Please amend claims 13-16 as follows, written in a "clean" format:

- 10 13. A process for preparing the protein having the amino acid sequence of SEQ ID NO: 2 by culturing the microorganism of claim ⁵ 6.
- 11 14. A kit for diagnosis of cancer which comprises the protooncogene of claim 2.
- 12 15. An anti-sense gene having a base sequence which is complementary to the sequence of the mRNA transcribed from the protooncogene of claim 2 and being capable of binding the mRNA to inhibit the expression of said protooncogene.

Please cancel claim 16 without prejudice thereto.

Please add new claims 17-19 as follows, written in a "clean" format:

- 13 17. A vector comprising the protooncogene of claim 2.
- 14 18. A microorganism transformed with the vector of claim ¹³ 17.